

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 5/04/2009

Control	1059-01-040
Project	STP 2009(446)HES
Highway	FM 1173
County	DENTON

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2009(446)HES

CONTROL: 1059-01-040

COUNTY: DENTON

LETTING: 05/07/2009

REFERENCE NO: 0504

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 3-9, 7-9 THRU 9-9)

X GENERAL NOTES (SH. NO.: H THRU M)

X SPEC LIST (SH. NO.: 1-3 THRU 3-3)

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEET 3-9: REVISED ITEM 464-2009 DESC CODE TO 464-2026.

SHEET 7-9: ADDED ITEM 644-2060 WITH A QUANTITY OF 38 EA.

SHEET 8-9: REVISED ITEM 666-2195 QUANTITY TO 4926 LF.

REVISED ITEM 678-2001 QUANTITY TO 4926 LF.

SHEETS 7-9 THRU 9-9: INFORMATION SHIFTED DUE TO THE ABOVE
CHANGES.

GENERAL NOTES: SHEET H: ADDED NOTE TO ITEM 400.

SHEET K: ADDED NOTES FOR ITEM 504.

SHEET L: DELETED NOTE UNDER ITEM 644.

SHEETS H THRU M: INFORMATION SHIFTED DUE TO THE ABOVE
CHANGES.

SPECIFICATIONS LIST: SHEET 1-3: ADDED STANDARD SPECIFICATION ITEM 504.

SHEETS 2-3 THRU 3-3: INFORMATION SHIFTED DUE TO THE
ABOVE CHANGE.

PLAN SHEETS: REVISED SHEET 2.

REPLACED SHEETS 13C-13F, 14, 14A.

ADDED SHEET 100C.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	536.010	1
	104	2009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	81.000	2
	110	2002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	69.100	3
	112	2002		SUBGRADE WIDENING (DENS CONT) DOLLARS and CENTS	STA	536.010	4
	132	2006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	35,532.000	5
	134	2004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	536.010	6
	161	2002	001	COMPOST MANUF TOPSOIL (BOS) (4") DOLLARS and CENTS	SY	179,770.000	7
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	1,100.000	8
	164	2023	002	CELL FBR MLCH SEED(PERM)(RURAL)(CLAY) DOLLARS and CENTS	SY	178,670.000	9
	164	2029	002	CELL FBR MLCH SEED(TEMP)(WARM) DOLLARS and CENTS	SY	89,335.000	10

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	2031	002	CELL FBR MLCH SEED(TEMP)(COOL) DOLLARS and CENTS	SY	89,335.000	11
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	13,344.000	12
	341	2011	020	D-GR HMA(QCQA) TY-B PG64-22 DOLLARS and CENTS	TON	20,116.000	13
	341	2014	020	D-GR HMA(QCQA) TY-B PG70-22 DOLLARS and CENTS	TON	25,304.000	14
	341	2050	020	D-GR HMA(QCQA) TY-C PG70-22 DOLLARS and CENTS	TON	20,243.000	15
	400	2008		CUT & RESTORING PAV (ASPH) DOLLARS and CENTS	SY	39.400	16
	430	2012		CL C CONC FOR EXT STRU (CULV)(3'X 2') DOLLARS and CENTS	LF	38.700	17
	430	2019		CL C CONC FOR EXT STRU(CULV)(6'X 4') DOLLARS and CENTS	LF	11.000	18
	430	2057		CL C CONC FOR EXT STRUC (CULV)(4'X4') DOLLARS and CENTS	LF	19.000	19
	430	2107		CL C CONC FOR EXT STRU (CULV)(10'X4') DOLLARS and CENTS	LF	20.000	20
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	48.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	432	2078		RIPRAP (MOW STRIP)(5")(CL A)(FIBER) DOLLARS and CENTS	CY	20.300	22
	459	2009		GABION MATTRESSES (GALV)(6 IN) DOLLARS and CENTS	SY	35.000	23
	459	2011		GABION MATTRESSES (GALV)(12 IN) DOLLARS and CENTS	SY	82.000	24
	462	2010		CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	35.000	25
	464	2001		RC PIPE (CL III)(12 IN) DOLLARS and CENTS	LF	15.000	26
	464	2003		RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	61.000	27
	464	2005		RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	124.000	28
	464	2007		RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	39.000	29
	464	2011		RC PIPE (CL III)(48 IN) DOLLARS and CENTS	LF	154.700	30
	464	2013		RC PIPE (CL III)(60 IN) DOLLARS and CENTS	LF	36.000	31
	464	2026		RC PIPE (CL IV)(36 IN) DOLLARS and CENTS	LF	37.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	465	2500	001	INLET(COMPL)(DROP)(TY C)(3-GRATE) DOLLARS and CENTS	EA	1.000	33
	466	2048		WINGWALL (PW)(HW=4 FT) DOLLARS and CENTS	EA	2.000	34
	466	2050		WINGWALL (PW)(HW=6 FT) DOLLARS and CENTS	EA	6.000	35
	466	2071		HEADWALL (CH-FW-0)(DIA= 48 IN) DOLLARS and CENTS	EA	1.000	36
	466	2073		HEADWALL (CH-FW-0)(DIA= 60 IN) DOLLARS and CENTS	EA	2.000	37
	466	2203		HEADWALL (SPECIAL) DOLLARS and CENTS	EA	1.000	38
	467	2023		SET (TY I)(S= 3 FT)(HW= 3 FT)(3:1)(C) DOLLARS and CENTS	EA	2.000	39
	467	2049		SET (TY I)(S= 6 FT)(HW= 5 FT)(3:1)(C) DOLLARS and CENTS	EA	2.000	40
	467	2211		SET (TY II)(24 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	4.000	41
	467	2213		SET (TY II)(30 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	2.000	42
	467	2215		SET (TY II)(36 IN)(RCP)(3:1)(C) DOLLARS and CENTS	EA	4.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	2284		SET (TY II)(12 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	16.000	44
	467	2285		SET (TY II)(15 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	10.000	45
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	97.000	46
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	58.000	47
	467	2290		SET (TY II)(30 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	6.000	48
	467	2294		SET (TY II)(48 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	1.000	49
	480	2001		CLEAN EXIST CULVS and DOLLARS CENTS	EA	13.000	50
	496	2005		REMOV STR (WINGWALL) and DOLLARS CENTS	EA	6.000	51
	496	2006		REMOV STR (HEADWALL) and DOLLARS CENTS	EA	11.000	52
	496	2007		REMOV STR (PIPE) and DOLLARS CENTS	LF	148.000	53
	496	2042		REMOV STR (SMALL) and DOLLARS CENTS	EA	2.000	54

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	500	2001	005	MOBILIZATION DOLLARS and CENTS	LS	1.000	55
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	15.000	56
	506	2001	011	ROCK FILTER DAMS (INSTALL) (TY 1) DOLLARS and CENTS	LF	810.000	57
	506	2009	011	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	810.000	58
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	1,800.000	59
	512	2017	001	PORT CTB (DES SOURCE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	200.000	60
	512	2018	001	PORT CTB (DES SOURCE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	40.000	61
	512	2035	001	PORT CTB (STKPL)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	200.000	62
	512	2036	001	PORT CTB (STKPL)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	40.000	63
	540	2002		MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	1,930.000	64

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	600.000	65
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	20.000	66
	544	2003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	4.000	67
	644	2001		INS SM RD SN SUP&AM TY 10BWG(1) SA(P) DOLLARS and CENTS	EA	32.000	68
	644	2004		INS SM RD SN SUP&AM TY 10BWG(1) SA(T) DOLLARS and CENTS	EA	6.000	69
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	38.000	70
	658	2261		INSTL DEL ASSM (D-SW)SZ (TYC)GF1(BI) DOLLARS and CENTS	EA	25.000	71
	658	2360		INSTL OM ASSM (OM-2Z)(RCR)GND(BI) DOLLARS and CENTS	EA	32.000	72
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	1,450.000	73
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	1,450.000	74
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	5,532.000	75

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	113,408.000	76
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	133.000	77
	666	2105		REFL PAV MRK TY I (Y) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	9,340.500	78
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	52,742.200	79
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	180,951.000	80
	666	2195		PAVEMENT SEALER 24" DOLLARS and CENTS	LF	4,926.000	81
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,130.000	82
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	1,450.000	83
	678	2001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	4,926.000	84
	678	2006		PAV SURF PREP FOR MRK (24") DOLLARS and CENTS	LF	133.000	85
	678	2013		PAV SURF PREP FOR MRK (RPM) DOLLARS and CENTS	EA	123.000	86

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	730	2001		STRIP MOWING DOLLARS and CENTS	AC	10.000	87
	752	2025		TREE REMOVAL (24"-30" DIA) DOLLARS and CENTS	EA	2.000	88
	5049	2002		BIODGRD EROSION CONTROL LOGS (18" DIA) DOLLARS and CENTS	LF	264.000	89

County: Denton

Control: 1059-01-040

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GENERAL NOTES:

SW3P RESPONSIBILITIES

TxDOT Area of Responsibility

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

TxDOT Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Contractor Area of Responsibility

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

Contractor Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

Specification Data

Table 1: Soil Constants Requirements				
Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(Density Control)(Type C)	40	12	1

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

Table 2: Basis of Estimate for Permanent Construction						
Item	Description	Thickness (Avg.)	Rate		Quantity	
164	Broadcast Seed	N/A	50	Lbs/Ac	3691	Lbs
166 *	Fertilizer (12-12-12)	N/A	400	Lbs/Ac	14.8	Ton
168	Vegetative Watering	N/A	240	Mg/Ac	13344	Mg
341	Hot Mix Asphalt (Ty B)64-22 B	5"	110	Lbs/SY/In	20116	Ton
341	Hot Mix Asphalt (Ty B)70-22 LU	2.5"	110	Lbs/SY/In	25304	Ton
341	Hot Mix Asphalt (Ty C)70-22 S	2"	110	Lbs/SY/In	20243	Ton
* For contractor's information only For uses of Permanent and Temporary Erosion Control.						
Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted) (2) Asphalt weight based on 110 Lbs/SY/inch (3) Subgrade weight based on 1.2 Ton/CY (dry- compacted)						

Table 3: Hamburg Wheel Test Requirements			
High-Temperature Binder Grade	Test Method	Laboratory Mixture Design or Trial Batch	Production and Placement Test ¹
		Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F	Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F
PG 64-22 or lower	Tex-242-F	7,000	7,000

1. The Engineer may accept if no more than 1 of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2000 passes below the specified number of passes.

General:

Access will be provided to all business and residences at all times. Materials, labor and maintenance for these temporary accesses will not be paid for directly but will be considered subsidiary to the various bid items.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 26.5 acres. However, **the Total Disturbed Area** (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required permits with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.19.F, "Project-Specific Locations", will provide a listing of regulatory agencies that may need to be contacted regarding this project.

County: Denton**Control: 1059-01-040****Highway: FM 1173**

Use established industry and utility safety practices to erect signs or structures near any overhead or underground utility. Consult with the appropriate utility company prior to beginning such work.

Prior to contract letting, bidders may obtain a free computer diskette or electronic files (from the engineer's office) that contains the earthwork information. If copies of the actual cross-sections, in addition to or instead of the diskette, are requested, they will be available at the engineer's office for borrowing by copying companies for the purpose of making copies for the bidder at the bidders expense. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communication & control, call 1-800-DIG-TESS (1-800-344-8377), TxDOT Traffic Signal Office (214-320-6682), and TxDOT Freeway Management Office (214-320-4439) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Meet weekly with the Inspector to notify him or her of planned work for the upcoming week.

Submit pre-letting questions by e-mail or fax as follows:

Gary Bailey, P.E.

Chris Behnke, P.E.

Linda Dillon

gbailey@dot.state.tx.us

cbehnke@dot.state.tx.us

ldillon@dot.state.tx.us

Fax: (940) 383-2267

The answers will be submitted in the same format in which they are received. A file containing these questions and answers will be available for review at the area engineer's office located at 2624 W. Prairie, Denton, TX 76201.

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

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Provide the Engineer with a copy of all DBE subcontractor agreements prior to commencing work.

Item 7:

The Stagegate Checklist conformance inspections will be completed every 14 days.

All Foremen that work on the project will also be required to watch the 20-minute Environmental Awareness Training Video but will not be required to take the test. Documentation showing that the foremen have viewed the video will be given to the Engineer prior to the Foremen working on the project.

Item 8:

This Project will be a Standard Workweek in accordance with Article 8.3.A.4.

Item 100:

The limits of preparing right of way will be measured from Sta. 0+00 to Sta. 58+30, Sta. 67+00 to Sta. 115+66, Sta. 141+86 to Sta. 420+97, Sta. 424+45 to Sta. 577+08.59 along the centerline of construction.

Item 104:

Removal of all concrete and structures of the types specified in the plans will be paid for under the pertinent bid item. The removal of other types of obstructions encountered will be paid for under Item 100, if applicable.

Items 110 and 132:

Excavation and embankment for driveways and intersections will not be paid for directly, but will be considered subsidiary to this item.

Items 110, 112 and 132:

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way at no additional expense to the department. Test soil for sulfate levels in accordance with Tex-145-E. Contact the engineer for a list of approved laboratories. Notify the engineer 72 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for specification requirements or material sources specified in the plans.

Shale is not an acceptable material for embankment. Do not use shaley clays in embankment unless approved in writing.

County: Denton**Control: 1059-01-040****Highway: FM 1173****Items 132 and 164:**

Perform vertical tracking on slopes to temporarily stabilize soil. Provide equipment with a track undercarriage capable of producing a linear soil impression measuring at least 12 inches in length by 2 to 4 inches in width by ½ to 2 inches in depth. Do not exceed 12 inches between track cleats. Install continuous linear track impressions where the minimum 12 inches in length impressions is perpendicular to the direction of water flow. This will not be paid for directly but considered subsidiary to this item.

Item 132:

Earth embankment Type C, is mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. Test soil for sulfate levels in accordance with Tex-145-E. Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 48 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for specification requirements or material sources specified in the plans. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Testing of this material will not be paid for directly, but will be considered subsidiary to this item.

Do not use shaley clays in embankment unless approved in writing.

Item 134:

Start backfilling pavement edges as soon as possible after the surface course is started.

Backfill and compact the pavement edges to produce a smooth surface adjacent to the pavement with no vertical edges.

Use Type "A" or "B" material to backfill pavement edges. This material shall consist of suitable material that when compacted will support the pavement edge. Rap is considered suitable Type "A" material.

Item 161:

Sequence construction operations to salvage topsoil from one location and spread on areas ready to receive topsoil. Keep stockpiling of topsoil to a minimum. Salvaged existing topsoil will be subsidiary to this item.

Use fertile clay or loam from the project site not more than two feet below natural grade.

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Highway: FM 1173

Item 162:

Block sod will be place at cross reinforce concrete pipe/box culvert and at driveway station 425+29.

Item 301:

Provide liquid antistripping agents unless otherwise directed. Provide manufacturer's instruction for liquid antistripping agent.

Add the minimum percentage determined by the manufacturer and try subsequent trials at 0.25% increments, unless otherwise instructed by the manufacture.

Item 320:

Material Transfer Device is required.

The use of windrow pick-up equipment is allowed except on the first course of roadway material placed over the subgrade.

Item 341

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Minimum requirement for coarse aggregate 5 cycle magnesium sulfate soundness is 25%. Meet this requirement for type C hot mix only.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture for base course and PG binder 70-22 in Type B mixture for level up course.

Provide PG binder 70-22 in Type C mixture for surface course.

Hamburg Wheel test requirements for mixes with PG 64-22 shall meet Table 3. The use of RAP is permitted to meet these requirements.

Slope longitudinal faces greater than 1 ¼" To a minimum of 1:1 slope at the end of the work period if traffic is able to traverse the joint. Slope transverse tapers to a minimum of 36:1 at the end of the workday. Remove the taper prior to continuing the milling.

Insure any flow of water is not impeded at the pavement edge or across the surface. Added planing up to three feet in width outside the lines and grades of the plans, necessary to provide proper drainage, will be subsidiary to the bid item.

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At driveway locations, taper Ty B HMAC approximately five feet onto driveway to provide assess; place surface TY C HMAC a minimum of 10 feet. Butt joints will be required for the surface on existing surfaced driveways or as otherwise approved by the Engineer.

At county road intersections, taper Ty B HMAC approximately five feet; place surface TY C HMAC to right-of-way lines. Butt joints will be required for the surface on these locations.

Laydown operations for hot mix asphaltic concrete shall be performed in such a sequence that the center joint will be carried along without excess distance of uneven surface, not to exceed one day's operation.

Provide a material transfer device with remixing equipment. The device will provide a continuous, uniform mixture flow to the asphalt paver that includes a pug mill, variable pitch augers, or variable diameter augers operating under a storage unit with a minimum capacity of 20 tons.

Item 400:

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

Use 12" Minimum PG binder 70-22 in Type B for restoring pavement.

Item 421:

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (Site Manager). Mix Design templates will be provided by the Engineer.

Provide sulfate resistant concrete for box culverts. High performance concrete meets the requirement for sulfate resistant concrete when Class C fly ash and Type I cement is not used in the mix design.

Provide a digital hydraulic compression testing Machine and accessories. The machine shall have a minimum testing range of 2500 pounds force to 250,000 pounds force with a hydraulic switching valve to allow for rapid advancing, hold, controlled advancing and rapid retracting. The machine shall have a load cell to measure compressive forces within the testing range and shall be calibrated and verified in accordance with ASTM latest version. The Machine can meet or exceed the following when approved by the Engineer:

ELE International ACCU-TEK250 Digital Compression Tester including accessories or Forney F-250EX Standard Compression Machine including accessories or TxDOT approved equal.

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Air-entrain all concrete except for Class "B". For structural concrete, if the air content is more than 1.5% below the required air, follow manufacturer recommendations to add the necessary approved air bags to increase the air content at the job site. Limit the adding of air bags in the field to one trial. Do not reject the load of concrete due to low air content; accept concrete based on strength tests.

Item 464:

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

Place new parallel reinforce concrete pipe to match proposed flow line unless otherwise noted on plans.

Excavation special will be for back slope of proposed structures as shown on plans.

Items 496 and 506:

When demolishing a structure/s that span the Waters of Texas or a designated wetland, take all practicable precautions to prevent debris from being discharged into the water or within the boundaries of the wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

Item 502:

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Erect a Type III barricade immediately in front of or at each end of all stockpiles that are less than 30 feet from the edge of any traveled lane. Place one Type 2 Object Marker (OM-2Y) alongside the stockpile for every 100 feet of stockpile length.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

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Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

Provide 1 shadow vehicle equipped with truck mounted attenuators as shown on the traffic control plan.

Traffic Control Plans with Lane Closures causing backups of 20 minutes or greater in duration will be modified by the Engineer.

Limit lane closures along FM 1173 to the hours between 8:30 am and 3:30 pm. Work in other areas of the project is not restricted to this time frame.

SUGGESTED SEQUENCE OF WORK

1. PLACE TRAFFIC CONTROL DEVICES AS SHOWN ON PLANS.
2. CONSTRUCT PROPOSED RCP AND BOX CULVERT WIDENINGS LT AND RT OF FM 1173 CENTERLINE AS SHOWN ON PLANS.
3. PERFORM THE SUBGRADE WIDENING LT OF FM 1173 CENTERLINE. A MAXIMUM 3:1 SLOPE AT THE PAVEMENT EDGE IS TO BE INTACT AT THE END OF EACH DAY'S OPERATIONS.
4. REMOVE THE 3:1 SLOPE FOR ONE DAY'S RUN IN ADVANCE. PLACE TY B HMAC BASE FOR ONE DAY'S PRODUCTION. PULL UP THE EXISTING MATERIAL ADJACENT TO THE PAVEMENT EDGE TO A MAXIMUM 3:1 SLOPE THE SAME DAY THE HMAC IS PLACED. PLACE EMBANKMENT AS CONFORMS ON THE PROPOSED CROSS SECTION.
5. REPEAT STEPS 3-4 RT OF FM 1173 CENTERLINE AS SHOWN ON PLANS.
6. APPLY TY B HMAC LEVEL UP.
7. APPLY TY C HMAC SURFACE TREATMENT, BACKFILL PAVEMENT EDGES, PLACE FINAL PAVEMENT MARKINGS, MARKERS, SIGNS, COMPOST MANUFACTURED TOPSOIL AND PLACE SEEDING.
8. REMOVE TRAFFIC CONTROL DEVICES.
9. PERFORM GENERAL CLEANUP.

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Item 504:

For the Type "E" Field Office, provide a minimum of six hundred (600) square feet of gross floor area partitioned into a minimum of three rooms and furnished with doors, floor covering and a minimum of two windows in each room. Reinforce doors and windows with burglar bars or similar protection. The bathroom needs to be at least 6 ft X 7 ft with running water. Provide a storage closet a minimum of 3 ft x 3 ft with a secure lock. The building must have one exterior door per room. Provide steps with non slip coating to these doors with hand railings. Provide two desks, one computer desk and a 4-drawer metal filing cabinet.

Provide one asphalt mix control laboratory (Type D) at each asphalt mixing plant used for this project. Meet the dimensional requirements specified for a Field Laboratory (Type A) for the Asphalt Mix Control Laboratory (Type D).

Provide a 10 lb Type A, B, C fire extinguisher for each room of all facilities furnished under this item.

Provide an all weather parking area for state vehicles adjacent to the field office with a minimum size parking area of 60 ft X 40 ft and adequate security lighting. Enclose this parking area with a 6-ft high fence and provide a lockable vehicle gate. These items are not paid for directly and considered subsidiary.

The field office and required furnishings provided must be equivalent or better in quality to that utilized for the contractor's field office.

Provide a weatherproof wage board that is of sufficient size for all required paperwork.

Maintain all field offices as directed by the engineer.

Provide sealed bottled water, a bottled water cooler and disposable paper cups in each Lab and in the Field Office.

Item 506:

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

SW3P Maintenance Reports are made every seven calendar days. Make corrections as soon as possible before the next anticipated rain event or within seven calendar days

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after being able to enter the site to work for each BMP. A BMP site being "Too Wet to Work" is the only acceptable reason for not accomplishing the corrections with the seven calendar day time limit and should be thoroughly documented on Form 2118. If maintenance corrections are not made within this time frame then all work will cease, time charges will continue until SW3P is brought into compliance and is documented on Form 2118 after TxDOT review.

This in no way releases the contractor of liability for noncompliance.

Obtain from the Engineer a copy of the project's TPDES Storm Water Program and Notice of Intent or Construction Site Notice. Laminate the sheets and bond with adhesive to 36" X 48" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits or as directed by the Engineer. SW3P Signs, maintenance, and repostings will be subsidiary to Item 502.

Item 512:

Contact shall pick-up and return concrete traffic barrier from the storage area located at Lunar Rd. Number and repair concrete traffic barrier prior to returning to stockpile area. Provide necessary connection hardware for installation of concrete traffic barrier. Retain possession of connection hardware provided for this project. Remove damaged barrier from the project. This work is subsidiary to Item 512.

Item 540:

Furnish steel post throughout the project.

Item 542:

Existing metal beam guard fence removed from this project will become the property of the contractor. The work involved in hauling this material will not be paid for directly, but will be considered subsidiary to this item.

Match existing roadway elevation within the limits of existing metal beam guard fence.

Item 585:

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 3 on the travel lanes.

Item 644:

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

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Provide field galvanizing and metalizing equipment, as per Item 445, at all times and make repairs to galvanized surfaces according to the above specification item at intervals as directed.

Base all sign support quantities for pipe and structural steel on the dimensions shown on the approved shop drawings or as approved in writing. Make calculations for measurement of the sign support quantities from the approved shop drawing in accordance with Article 9.1 of the standard specifications. Measure increases or decreases in quantities caused by changes in design after the shop drawings are approved as specified. Revised quantities will be the basis for payment.

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

Item 666:

Provide Type III Glass Traffic Beads that meet the requirements of Departmental Materials Specifications DMS-8290.

Contractor is responsible for maintaining the limits of all existing pavement markings after proposed construction is completed.

Item 672:

Black adhesive will be used on asphalt pavements.

Item 677:

Grinding of pavements is not allowed to eliminate pavement markings.

Placement of paint or thermo is not allowed to eliminate pavement markings.

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PROJECT : STP 2009(446)HES
HIGHWAY : FM 1173
COUNTY : DENTON

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT
ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION JUNE 1, 2004.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (103)
ITEM 104 REMOVING CONCRETE
ITEM 110 EXCAVATION (132)
ITEM 112 SUBGRADE WIDENING (132)(204)
ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)
ITEM 134 BACKFILLING PAVEMENT EDGES (162)(166)(168)(300)(314)
ITEM 161 COMPOST (160)
ITEM 162 SODDING FOR EROSION CONTROL (166)(168)
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (QC/QA) (210)(300)(301)(320)
(520)(585)
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
ITEM 430 EXTENDING CONCRETE STRUCTURES (420)(421)(440)(448)
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)
ITEM 459 GABIONS AND GABION MATTRESSES
ITEM 462 CONCRETE BOX CULVERTS AND STORM DRAINS (400)(420)(421)
(424)(440)(464)(476)
ITEM 464 REINFORCED CONCRETE PIPE (400)(476)
ITEM 465 MANHOLES AND INLETS (400)(420)(421)(440)(471)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)
(460)(464)
ITEM 480 CLEANING EXISTING CULVERTS
ITEM 496 REMOVING STRUCTURES (430)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 504 FIELD OFFICE AND LABORATORY

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
 CONTROLS (432)(556)
 ITEM 512 PORTABLE CONCRETE TRAFFIC BARRIER (420)(421)(424)(440)
 (442)
 ITEM 540 METAL BEAM GUARD FENCE (421)(445)(529)(542)(544)
 ITEM 542 REMOVING METAL BEAM GUARD FENCE
 ITEM 544 GUARDRAIL END TREATMENTS
 ITEM 644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES (421)(440)
 (441)(442)(445)(634)(636)(643)(656)
 ITEM 658 DELINEATOR AND OBJECT MARKER ASSEMBLIES (445)
 ITEM 662 WORK ZONE PAVEMENT MARKINGS (666)(668)(672)(677)
 ITEM 666 REFLECTORIZED PAVEMENT MARKINGS (316)(318)(662)(677)(678)
 ITEM 672 RAISED PAVEMENT MARKERS (677)(678)
 ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS (300)
 (302)(316)
 ITEM 678 PAVEMENT SURFACE PREPARATION FOR MARKINGS (677)
 ITEM 730 ROADSIDE MOWING
 ITEM 752 TREE AND BRUSH REMOVAL

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE
 ----- PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED
 HEREON WHEREVER IN CONFLICT THEREWITH.

REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS
 (FORM FHWA 1273, MARCH, 1994)

WAGE RATES

SPECIAL PROVISION "SCHEDULE OF LIQUIDATED DAMAGES" (000--1493)
 SPECIAL PROVISION "PARTNERING" (000---002)
 SPECIAL PROVISION "NOTICE TO ALL BIDDERS" (000---003)
 SPECIAL PROVISION "NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO
 ENSURE EQUAL EMPLOYMENT OPPORTUNITY" (000---004)
 SPECIAL PROVISION "DISADVANTAGED BUSINESS ENTERPRISE IN FEDERAL-AID
 CONSTRUCTION" (000---461)
 SPECIAL PROVISION "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
 CONSTRUCTION CONTRACT SPECIFICATIONS" (000---006)
 SPECIAL PROVISION "ON-THE-JOB TRAINING PROGRAM" (000--1001)
 SPECIAL PROVISION "CERTIFICATION OF NONDISCRIMINATION IN EMPLOYMENT"
 (000---009)
 SPECIAL PROVISION "DEPARTMENT DIVISION MAILING AND PHYSICAL ADDRESS"
 (000---011)
 SPECIAL PROVISION "NOTICE OF CHANGES TO U.S. DEPARTMENT OF LABOR
 REQUIRED PAYROLL INFORMATION" (000--1483)
 SPECIAL PROVISION "IMPORTANT NOTICE TO CONTRACTORS" (000--1595)
 SPECIAL PROVISION TO ITEM 1 (001---011)
 SPECIAL PROVISION TO ITEM 2 (002---017)
 SPECIAL PROVISION TO ITEM 4 (004---013)
 SPECIAL PROVISION TO ITEM 5 (005---004)
 SPECIAL PROVISION TO ITEM 6 (006---030)
 SPECIAL PROVISIONS TO ITEM 7 (007---213)(007---445)(007---539)
 SPECIAL PROVISION TO ITEM 8 (008---084)
 SPECIAL PROVISIONS TO ITEM 9 (009---009)(009---015)
 SPECIAL PROVISION TO ITEM 100 (100---002)

SPECIAL PROVISION	TO ITEM	161	(161---001)
SPECIAL PROVISION	TO ITEM	164	(164---002)
SPECIAL PROVISION	TO ITEM	166	(166---001)
SPECIAL PROVISION	TO ITEM	247	(247---020)
SPECIAL PROVISION	TO ITEM	341	(341---020)
SPECIAL PROVISION	TO ITEM	420	(420---002)
SPECIAL PROVISION	TO ITEM	421	(421---031)
SPECIAL PROVISION	TO ITEM	424	(424---001)
SPECIAL PROVISION	TO ITEM	431	(431---001)
SPECIAL PROVISION	TO ITEM	440	(440---001)
SPECIAL PROVISION	TO ITEM	441	(441---002)
SPECIAL PROVISION	TO ITEM	442	(442---005)
SPECIAL PROVISION	TO ITEM	465	(465---001)
SPECIAL PROVISION	TO ITEM	500	(500---005)
SPECIAL PROVISION	TO ITEM	502	(502---033)
SPECIAL PROVISION	TO ITEM	506	(506---011)
SPECIAL PROVISION	TO ITEM	512	(512---001)
SPECIAL PROVISION	TO ITEM	636	(636---014)
SPECIAL PROVISION	TO ITEM	672	(672---034)

SPECIAL SPECIFICATIONS:

ITEM 5049 BIODEGRADABLE EROSION CONTROL LOGS (161)(506)

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
 ----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
 PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
 LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
 PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
 CATIONS FOR THIS PROJECT.